South Falklands Basin, Assessment Unit 60600201 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

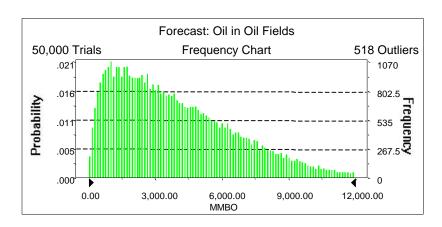
Field		Undiscovered Resources							Largest Undiscovered Field									
Type	MFS	Prob.		Oil (M	IMBO)			Gas (I	BCFG)			NGL (MI	MBNGL)			(MMBO o	r BCFG)	
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
au =	40		٥	000	0.470	0.000	0	4 705	40.700	4 400	0	40	405	440	4 47	700	0.070	004
Oil Fields	10	0.56	U	900	8,173	2,229	U	1,725	16,733	4,466	U	42	425	112	147	723	2,673	961
Gas Fields	60						0	1,339	11,784	3,244	0	33	300	81	255	1,075	3,992	1,435
			_								_							
Total		0.56	0	900	8,173	2,229	0	3,064	28,518	7,710	0	75	725	193				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 12,000.00 MMBO Entire range is from 13.30 to 22,483.41 MMBO After 50,000 trials, the standard error of the mean is 12.54

Statistics: Trials Mean Median	<u>Value</u> 50000 3,994.03 3,431.15
Mode	
Standard Deviation	2,803.03
Variance	7,856,993.82
Skewness	0.92
Kurtosis	3.63
Coefficient of Variability	0.70
Range Minimum	13.30
Range Maximum	22,483.41
Range Width	22,470.10
Mean Standard Error	12.54



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

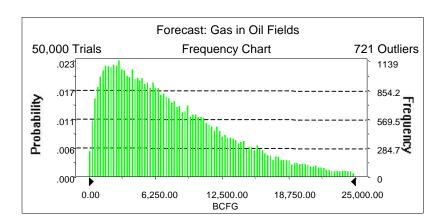
<u>Percentile</u>	<u>MMBO</u>
100%	13.30
95%	535.71
90%	847.03
85%	1,143.41
80%	1,440.58
75%	1,743.84
70%	2,058.02
65%	2,386.85
60%	2,712.29
55%	3,062.81
50%	3,431.15
45%	3,824.77
40%	4,236.70
35%	4,689.87
30%	5,165.18
25%	5,705.04
20%	6,314.21
15%	7,038.55
10%	7,954.29
5%	9,331.95
0%	22,483.41

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 25,000.00 BCFG Entire range is from 24.17 to 49,467.81 BCFG After 50,000 trials, the standard error of the mean is 26.77

Statistics:	<u>Value</u>
Trials	50000
Mean	8,000.24
Median	6,631.59
Mode	
Standard Deviation	5,986.86
Variance	35,842,479.06
Skewness	1.19
Kurtosis	4.68
Coefficient of Variability	0.75
Range Minimum	24.17
Range Maximum	49,467.81
Range Width	49,443.64
Mean Standard Error	26.77



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

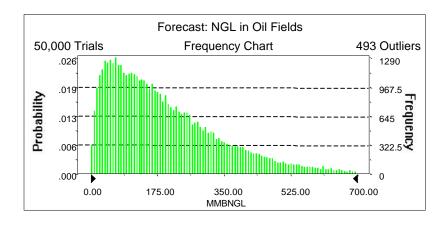
<u>Percentile</u>	<u>BCFG</u>
100%	24.17
95%	1,011.93
90%	1,619.49
85%	2,190.79
80%	2,767.48
75%	3,342.87
70%	3,963.42
65%	4,595.03
60%	5,238.06
55%	5,922.67
50%	6,631.59
45%	7,388.13
40%	8,223.39
35%	9,156.66
30%	10,147.37
25%	11,235.97
20%	12,547.79
15%	14,206.88
10%	16,260.69
5%	19,701.97
0%	49,467.81

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 700.00 MMBNGL Entire range is from 0.46 to 1,292.46 MMBNGL After 50,000 trials, the standard error of the mean is 0.69

Statistics:	<u>Value</u>
Trials	50000
Mean	200.05
Median	163.22
Mode	
Standard Deviation	154.77
Variance	23,954.30
Skewness	1.32
Kurtosis	5.24
Coefficient of Variability	0.77
Range Minimum	0.46
Range Maximum	1,292.46
Range Width	1,291.99
Mean Standard Error	0.69



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

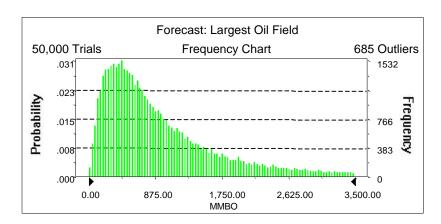
<u>Percentile</u>	<u>MMBNGL</u>
100%	0.46
95%	24.47
90%	39.40
85%	53.23
80%	67.01
75%	81.43
70%	96.96
65%	112.60
60%	128.63
55%	145.39
50%	163.22
45%	181.77
40%	202.30
35%	225.44
30%	250.76
25%	279.39
20%	312.89
15%	355.46
10%	412.57
5%	503.16
0%	1,292.46

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 3,500.00 MMBO Entire range is from 13.26 to 3,996.82 MMBO After 50,000 trials, the standard error of the mean is 3.51

Statistics:	<u>Value</u>
Trials	50000
Mean	960.91
Median	722.54
Mode	
Standard Deviation	784.74
Variance	615,819.70
Skewness	1.47
Kurtosis	4.98
Coefficient of Variability	0.82
Range Minimum	13.26
Range Maximum	3,996.82
Range Width	3,983.55
Mean Standard Error	3.51



Forecast: Largest Oil Field (cont'd)

Percentiles:

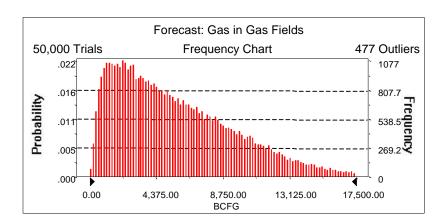
Doroontilo	MMDO
<u>Percentile</u>	<u>MMBO</u>
100%	13.26
95%	146.59
90%	217.12
85%	277.69
80%	336.05
75%	396.20
70%	454.29
65%	515.63
60%	580.31
55%	649.06
50%	722.54
45%	805.68
40%	901.45
35%	1,005.43
30%	1,132.59
25%	1,279.40
20%	1,466.77
15%	1,717.41
10%	2,074.80
5%	2,672.75
0%	3,996.82

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 17,500.00 BCFG Entire range is from 62.97 to 31,662.73 BCFG After 50,000 trials, the standard error of the mean is 18.08

Statistics:	<u>Value</u>
Trials	50000
Mean	5,769.63
Median	4,933.11
Mode	
Standard Deviation	4,042.79
Variance	16,344,142.79
Skewness	0.93
Kurtosis	3.67
Coefficient of Variability	0.70
Range Minimum	62.97
Range Maximum	31,662.73
Range Width	31,599.77
Mean Standard Error	18.08



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

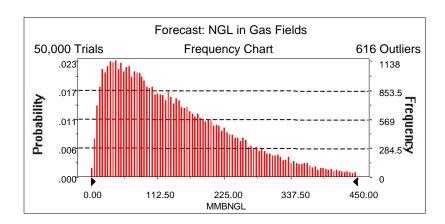
<u>Percentile</u>	<u>BCFG</u>
100%	62.97
95%	831.53
90%	1,254.60
85%	1,673.16
80%	2,098.00
75%	2,508.09
70%	2,937.37
65%	3,410.30
60%	3,890.58
55%	4,394.73
50%	4,933.11
45%	5,504.32
40%	6,123.39
35%	6,766.90
30%	7,473.08
25%	8,260.37
20%	9,133.05
15%	10,170.00
10%	11,467.64
5%	13,447.02
0%	31,662.73

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 450.00 MMBNGL Entire range is from 1.18 to 898.83 MMBNGL After 50,000 trials, the standard error of the mean is 0.47

Statistics:	<u>Value</u>
Trials	50000
Mean	144.28
Median	121.20
Mode	
Standard Deviation	105.11
Variance	11,047.97
Skewness	1.09
Kurtosis	4.25
Coefficient of Variability	0.73
Range Minimum	1.18
Range Maximum	898.83
Range Width	897.65
Mean Standard Error	0.47



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

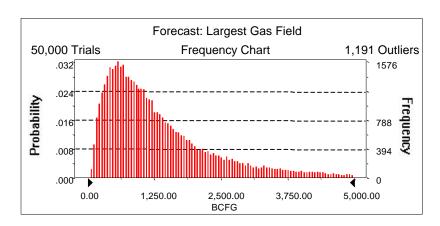
<u>Percentile</u>	<u>MMBNGL</u>
100%	1.18
95%	20.03
90%	30.64
85%	40.59
80%	50.89
75%	61.25
70%	72.20
65%	83.13
60%	94.62
55%	107.39
50%	121.20
45%	135.28
40%	150.27
35%	166.44
30%	184.52
25%	204.53
20%	227.31
15%	254.62
10%	291.16
5%	347.83
0%	898.83

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 5,000.00 BCFG Entire range is from 62.97 to 6,996.05 BCFG After 50,000 trials, the standard error of the mean is 5.35

Statistics:	<u>Value</u>
Trials	50000
Mean	1,435.19
Median	1,075.19
Mode	
Standard Deviation	1,196.57
Variance	1,431,786.25
Skewness	1.77
Kurtosis	6.50
Coefficient of Variability	0.83
Range Minimum	62.97
Range Maximum	6,996.05
Range Width	6,933.08
Mean Standard Error	5.35



Forecast: Largest Gas Field (cont'd)

Percentiles:

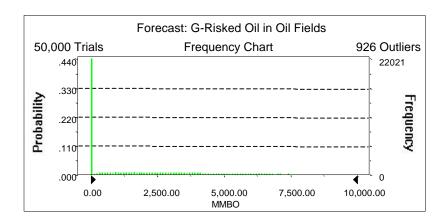
<u>Percentile</u>	<u>BCFG</u>
100%	62.97
95%	255.02
90%	355.89
85%	441.86
80%	526.77
75%	607.86
70%	689.22
65%	778.70
60%	871.25
55%	971.93
50%	1,075.19
45%	1,188.59
40%	1,316.67
35%	1,464.71
30%	1,638.81
25%	1,848.29
20%	2,124.89
15%	2,487.55
10%	3,022.94
5%	3,992.00
0%	6,996.05

Forecast: G-Risked Oil in Oil Fields

Summary:

Display range is from 0.00 to 10,000.00 MMBO Entire range is from 0.00 to 21,451.58 MMBO After 50,000 trials, the standard error of the mean is 12.83

Statistics:	<u>Value</u>
Trials	50000
Mean	2,229.42
Median	900.12
Mode	0.00
Standard Deviation	2,868.49
Variance	8,228,240.96
Skewness	1.35
Kurtosis	4.31
Coefficient of Variability	1.29
Range Minimum	0.00
Range Maximum	21,451.58
Range Width	21,451.58
Mean Standard Error	12.83



Forecast: G-Risked Oil in Oil Fields (cont'd)

Percentiles:

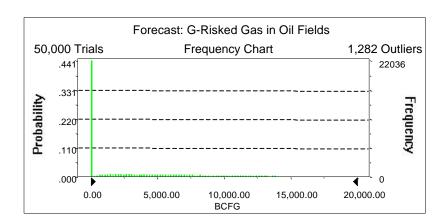
	14400
<u>Percentile</u>	<u>MMBO</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	298.46
50%	900.12
45%	1,429.31
40%	1,978.74
35%	2,539.70
30%	3,158.03
25%	3,836.48
20%	4,605.16
15%	5,462.45
10%	6,573.73
5%	8,172.91
0%	21,451.58

Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 20,000.00 BCFG Entire range is from 0.00 to 49,467.81 BCFG After 50,000 trials, the standard error of the mean is 26.59

Statistics:	<u>Value</u>
Trials	50000
Mean	4,465.50
Median	1,725.47
Mode	0.00
Standard Deviation	5,945.47
Variance	35,348,635.97
Skewness	1.57
Kurtosis	5.46
Coefficient of Variability	1.33
Range Minimum	0.00
Range Maximum	49,467.81
Range Width	49,467.81
Mean Standard Error	26.59



Forecast: G-Risked Gas in Oil Fields (cont'd)

Percentiles:

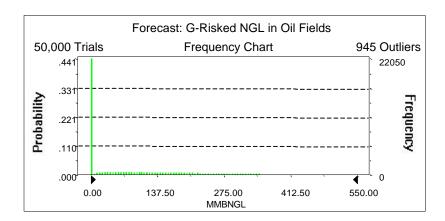
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	559.22
50%	1,725.47
45%	2,751.89
40%	3,788.73
35%	4,913.97
30%	6,113.00
25%	7,415.59
20%	9,003.30
15%	10,816.90
10%	13,163.70
5%	16,733.31
0%	49,467.81

Forecast: G-Risked NGL in Oil Fields

Summary:

Display range is from 0.00 to 550.00 MMBNGL Entire range is from 0.00 to 1,292.46 MMBNGL After 50,000 trials, the standard error of the mean is 0.68

Statistics:	<u>Value</u>
Trials	50000
Mean	111.70
Median	41.92
Mode	0.00
Standard Deviation	151.70
Variance	23,012.21
Skewness	1.69
Kurtosis	6.18
Coefficient of Variability	1.36
Range Minimum	0.00
Range Maximum	1,292.46
Range Width	1,292.46
Mean Standard Error	0.68



Forecast: G-Risked NGL in Oil Fields (cont'd)

Percentiles:

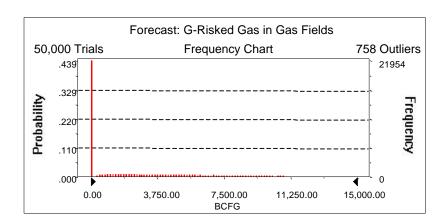
Percentile	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	13.36
50%	41.92
45%	66.24
40%	92.90
35%	120.28
30%	149.80
25%	182.73
20%	221.52
15%	267.22
10%	328.20
5%	425.17
0%	1,292.46

Forecast: G-Risked Gas in Gas Fields

Summary:

Display range is from 0.00 to 15,000.00 BCFG Entire range is from 0.00 to 31,662.73 BCFG After 50,000 trials, the standard error of the mean is 18.61

Statistics:	<u>Value</u>
Trials	50000
Mean	3,244.42
Median	1,338.97
Mode	0.00
Standard Deviation	4,160.46
Variance	17,309,449.42
Skewness	1.35
Kurtosis	4.33
Coefficient of Variability	1.28
Range Minimum	0.00
Range Maximum	31,662.73
Range Width	31,662.73
Mean Standard Error	18.61



Forecast: G-Risked Gas in Gas Fields (cont'd)

Percentiles:

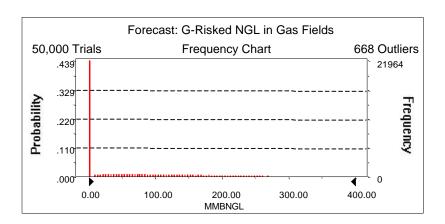
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	529.86
50%	1,338.97
45%	2,099.75
40%	2,861.22
35%	3,710.90
30%	4,584.52
25%	5,574.74
20%	6,717.29
15%	7,997.01
10%	9,558.55
5%	11,784.34
0%	31,662.73

Forecast: G-Risked NGL in Gas Fields

Summary:

Display range is from 0.00 to 400.00 MMBNGL Entire range is from 0.00 to 814.23 MMBNGL After 50,000 trials, the standard error of the mean is 0.47

Statistics:	<u>Value</u>
Trials	50000
Mean	81.05
Median	32.59
Mode	0.00
Standard Deviation	106.03
Variance	11,243.07
Skewness	1.47
Kurtosis	4.95
Coefficient of Variability	1.31
Range Minimum	0.00
Range Maximum	814.23
Range Width	814.23
Mean Standard Error	0.47



Forecast: G-Risked NGL in Gas Fields (cont'd)

Percentiles:

D +!! -	MADNICI
<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	12.47
50%	32.59
45%	51.07
40%	70.28
35%	90.09
30%	112.38
25%	136.96
20%	165.06
15%	197.97
10%	238.59
5%	300.30
0%	814.23

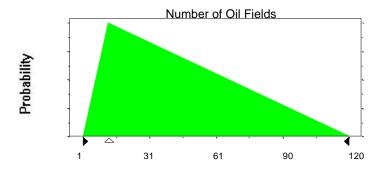
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	12
Maximum	120

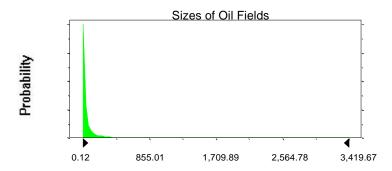
Selected range is from 1 to 120 Mean value in simulation was 44



Assumption: Sizes of Oil Fields

Lognormal distribution with par	Shifted parameters	
Mean	86.87	96.87
Standard Deviation	367.16	367.16
Selected range is from 0.00 to 3	3 990 00	10 00 to 4 000 00

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

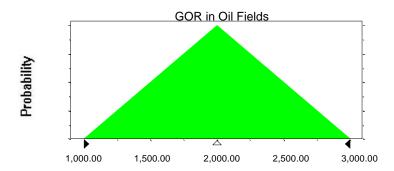
Triangular distribution with parameters:

 Minimum
 1,000.00

 Likeliest
 2,000.00

 Maximum
 3,000.00

Selected range is from 1,000.00 to 3,000.00 Mean value in simulation was 2,000.54

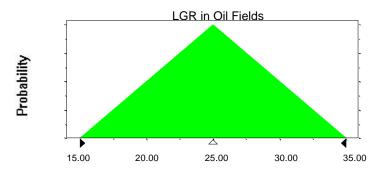


Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	15.00
Likeliest	25.00
Maximum	35.00

Selected range is from 15.00 to 35.00 Mean value in simulation was 25.03



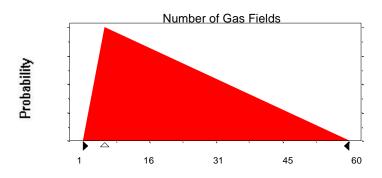
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	6
Maximum	60

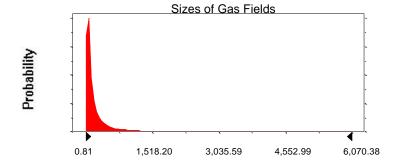
Selected range is from 1 to 60 Mean value in simulation was 22

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with paran	Shifted parameters	
Mean	211.65	271.65
Standard Deviation	603.90	603.9
Selected range is from 0.00 to 6,9 Mean value in simulation was 198	60.00 to 7,000.00 258.71	

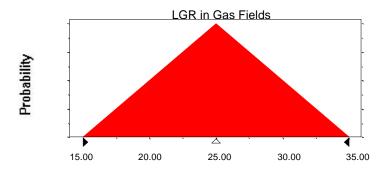


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	15.00
Likeliest	25.00
Maximum	35.00

Selected range is from 15.00 to 35.00 Mean value in simulation was 24.99



End of Assumptions

Simulation started on 10/15/99 at 13:56:48 Simulation stopped on 10/15/99 at 14:42:22